

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|------------------|
| S1 | 2 | "6780673".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 11:17 |
| S2 | 5 | ("5279711" "6261883" "6274391" "6281111" "6521530").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/11 14:47 |
| S3 | 68 | (package near substrate or wiring near substrate or pcb or pwb) same (via or viahole or feedthrough or feedthru) near10 (electrode or pad or terminal) same (surface or outside or top or exterior or above or pad or contact or electrode) near3 (ground) same (chip or die or ic) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/11 14:56 |
| S4 | 154 | (package near substrate or wiring near substrate or pcb or pwb) same (electrode or pad or terminal) near5 (solder near ball or bga) near5 (chip or ic or die) and (surface or outside or top or exterior) near5 (metal or metallization or metallized or metallizing or metallic) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/11 16:46 |
| S5 | 1 | ("20020189849").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/11 15:46 |
| S6 | 11 | ("4003621" "4249302" "4932883" "5071359" "5245751" "5427535" "5828226" "6264476" "6663399" "6712620" "6722893").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/11 15:47 |
| S7 | 33 | (package near substrate or wiring near substrate or pcb or pwb) same (signal or contact or wiring) near (pad or electrode or terminal) near6 (surface or outside or top or exterior or upon or outer) near6 (ground) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/11 16:57 |
| S8 | 50 | (package near substrate or wiring near substrate or pcb or pwb) near10 (surface or top or upper or outside or outer or exterior) near8 (metal or metallization or metallized or metallizing or metallic) near10 (channel or groove or grooved or trench or trenched or spacer or spaces) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/12 08:47 |
| S9 | 622 | (package near substrate or wiring near substrate or pcb or pwb) same (ground) near2 (plane or pad or terminal or electrode or contact) near6 (top or above or upper or surface or outside or outer or overlying) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/12 08:48 |
| S10 | 144 | (package near substrate or wiring near substrate or pcb or pwb) same (ground) near2 (plane or pad or terminal or electrode or contact) near6 (top or above or upper or surface or outside or outer or overlying) and (bga or solder near ball) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/12 08:48 |
| S11 | 1 | ("6479758").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/12 08:59 |
| S12 | 4 | ("6225702" "6384476" "6388207" "6479758").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/12 09:01 |
| S13 | 4 | ("20020113319" "20030094631" "20030122213" "20030132529").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/12 09:03 |
| S16 | 318 | 257/691.ccor. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 12:44 |
| S17 | 211 | 257/698.ccor. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 13:07 |

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| S18 | 270 | 257/700.ccor. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 13:27 |
| S19 | 87 | 257/730.ccor. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 13:37 |
| S20 | 693 | 257/778.ccor. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 13:38 |
| S21 | 389 | 257/778.ccor. and (solder near ball or bga or ball near grid) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 14:17 |
| S22 | 119 | 257/779.ccor. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 14:55 |
| S23 | 326 | 257/786.ccor. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/12 16:03 |
| S25 | 19 | (US-20020121689-\$ or US-20020132463-\$ or US-20020180027-\$ or US-20030122213-\$ or US-20030146510-\$ or US-20050017345-\$).did. or (US-4937472-\$ or US-5188280-\$ or US-6108212-\$ or US-6154370-\$ or US-6388207-\$ or US-6479949-\$ or US-6521530-\$ or US-6610934-\$ or US-6707145-\$ or US-6740965-\$ or US-6800947-\$ or US-6828669-\$ or US-6861740-\$).did. | US-PGPUB; USPAT | OR | ON | 2005/07/18 16:09 |
| S26 | 2 | "6261883".pn. "6274391".pn. | US-PGPUB; USPAT | OR | ON | 2005/07/18 16:29 |
| S27 | 18 | (bga or ball near grid or solder near ball) and (solder near mask) near4 oxide | US-PGPUB; USPAT | OR | ON | 2005/07/18 16:36 |